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Attorney Docket No. 56822(47126)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: G. CEVC *et al.*

U.S.S.N.: 10/037,480

ART UNIT: 1723


FILED: January 4, 2002

EXAMINER: Unknown

FOR: A METHOD FOR THE IMPROVEMENT OF TRANSPORT ACROSS
ADAPTABLE SEMI-PERMEABLE BARRIERS

CERTIFICATE OF MAILING

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 2, 2003

By: 
Eileen M. Woodbury

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
(SUBMISSION AFTER FILING OF AN APPLICATION
BUT BEFORE FINAL REJECTION OR NOTICE OF ALLOWANCE)**

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, Applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

- a. X Submitted herewith is a legible copy of (i) each U.S and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- b. Each of the patents, publications or other information listed on the attached PTO-1449 was previously cited by or submitted to the USPTO in connection with U.S.S.N.: _____, to which the subject application claims the benefit of the earlier filing date. As such, a copy of each is not included herewith pursuant to 37 C.F.R. § 1.98(d).

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

- a. X Except as may be indicated below in (b), all of the patents, publications or other information are in the English language or were cited in an English language Search Report, a copy of which is attached hereto (concise explanation not required).
- b. A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:
- English translation for reference(s) _____.
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- c. The following additional information is provided for the Examiner's consideration:
- Copy of EPO Search Report.
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FEEs

IV. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(b)
(check one box)

- a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b) (1)). No fee or certification is required.
- b. ☐ within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b) (2)). No fee or certification is required.
- c. ☒ before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, charge our deposit account a fee in the amount of \$240.00 as required by 37 C.F.R. § 1.17(p).

V. THIS IDS IS BEING FILED UNDER 37 C.F.R. § 1.97(c):
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before the mailing date of a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c) (1)) or before the mailing date of a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c) (2)).

- a. ☐ No certification; therefore, a fee in the amount of \$240.00 is required by 37 C.F.R. . § 1.17(p).
- or
- b. ☐ See the certification below. No fee is required.

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e) (check only one box)

The undersigned hereby certifies that

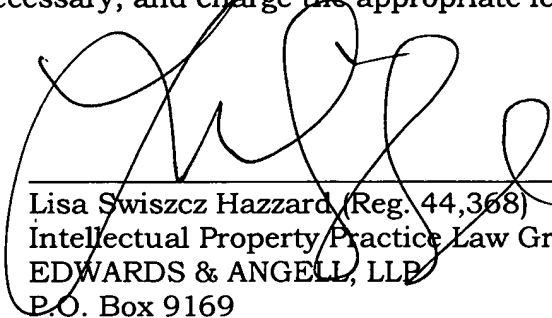
- a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS; or
- b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.
- c. ☐ Some of the items of information were cited in a communication from a foreign Patent Office. As to this information, the undersigned certifies that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the best of my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VII. FEE PAYMENT (check one)

- ☐ Enclosed please find a check in the amount of \$240.00 for the above-indicated fee.
- ☐ Please charge Deposit Account No. 04-1105 in the amount of \$240.00 for the above-indicated fee.
- ☐ No fee is required.

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If the Examiner has any questions concerning the IDS, he/she is requested to contact the undersigned. If it is determined that the IDS has been filed under the wrong rule, the PTO is requested to consider the IDS under the proper rule, with a petition if necessary, and charge the appropriate fee to Deposit Account No. 04-1105.



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	FILING DATE: January 4, 2002	GROUP NO. 1723

UNITED STATES PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,954,345	09/04/90	Miller			
	AB	4,937,078	06/26/90	Mezei, et al.			
	AC	4,921,706	05/01/90	Roberts, et al.			
	AD	4,911,928	03/27/90	Wallach			
	AE	6,165,500	12/26/2000	G. CEVC			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO
	BA	WO 98/17255	04/30/98	PCT			
	BB	WO 98/30215	07/16/98	PCT			
	BC	WO 92/03122	03/05/92	PCT			
	BD	WO 00/24377	05/04/00	PCT			
	BE	WO 00/12060	03/09/00	PCT			
	BF	WO 98/33483	08/06/98	PCT			
	BG	WO 88/07362	10/06/88	PCT			
	BH	WO 00/38653	07/06/00	PCT			
	BI	WO 98/06750	02/19/98	PCT			
	BJ	WO 91/04013	04/04/91	PCT			
	BK	WO 92/05771	04/16/92	PCT			
	BL	WO 93/19736	10/14/93	PCT			
	BM	WO 93/19737	10/14/93	PCT			

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✓	BN	WO 90/09782	09/07/90	PCT			
✓	BO	WO 87/01938	04/09/87	PCT			
✓	BP	4,447,287	11/07/96	Germany			
✓	BQ	3,713,494	10/29/87	Germany			
✓	BR	3,016,976	11/13/80	Germany			
✓	BS	1,289,420	09/24/91	Canada			
✓	BT	2,052,164	09/26/92	Canada			
✓	BU	1,740,283	07/28/83	AU			
✓	BV	0,674,913	04.10.95	Europe			
✓	BW	0,704,206	04/03/96	Europe			
✓	BX	0,475,160	03/18/92	Europe			
✓	BY	0,707,847	04/24/96	Europe			
✓	BZ	0,475,160	03/18/92	Europe			
✓	DA	0,280,492	08/31/88	Europe			
✓	DB	0,102,324	03/07/84	Europe			
✓	DC	0,224,837	11/24/86	Europe			
✓	DD	0,211,647	02/25/87	Europe			
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CA	G. CEVC et al., Transfersomes-mediated transepidermal delivery improves the regio-specificity and biological activity of corticosteroids in vivo, <i>Journal of Controlled Release</i> 45 (1997) 211-226.
CB	V.M. KNEP P et al. CONTROLLED DRUG RELEASE FROM A NOVEL LIPOSOMAL DELIVERY SYSTEM II. TRANSDERMAL DELIVERY CHARACTERISTICS", <i>Journal of Controlled Release</i> 12 (1990) March, No. 1, Amsterdam, NL, pp. 25-30.
CC	C.E. Price, "A REVIEW OF THE FACTORS INFLUENCING THE PENETRATION OF PESTICIDES THROUGH PLANT LEAVES" on I.C.I. Ltd., Plant Protection Division, Jealott's Hill Research Station, Bracknell, Berkshire RG12 6EY, U.K., pp. 237-252.
CD	K. Karzel and R. K. Liedtke, "MECHANISMEN TRANSKUTANER RESORPTION" on <i>Grandlagen/Basics</i> , pp. 1487-1491.
CE	Michael Mezei, "LIPOSOMES AS A SKIN DRUG DELIVERY SYSTEM" 1985 Elsevier Science Publishers B.V. (Biomedical Division), pp. 345-358.
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CG	A. Helenius, et al, "SOLUBILIZATION OF MEMBRANES BY DETERGENTS", <i>Biochimica et Biophysica Acta</i> , 415 (1975) 29-79.
CH	Phillip G. Green, et al., "IN VITRO AND IN VIVO ENHANCEMENT OF SKIN PERMEATION WITH OLEIC AND LAURIC ACIDS" on <i>International Journal of Pharmaceutics</i> , 48 (1988), pp. 103-111.
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CN	Cevc, G. et al., "Ultraflexible vesicles, Transfersomes, have an extremely low pore penetration resistance and transport therapeutic amounts of insulin across the intact mammalian skin", Biochimica et Biophysica Acta. 1368 pp. 201-215 (1998).
CO	Cevc, G. "Material Transport Across Permeability Barriers by Means of Lipid Vesicles", Handbook of Biological Physics, Vol. 1, pp. 465-490 (1995).
CP	Mayer, L.D. et al., "Vesicles of variables sizes produced by a rapid extrusion procedure", Biochimica et Biophysica Acta, 858 pp. 161-165 (1986).
CQ	Patel, H.M. et al., "ORAL ADMINISTRATION OF INSULIN BY ENCAPSULATION WITHIN LIPOSOMES", FEBS LETTERS, 62(1):60-63 (February 1976).
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CS	Beyer, C. et al., "Micro Emulsions" Pharmazie in unserer Zeit, No. 2 (1983).
CT	Lichtenberg, D. et al., "SOLUBILIZATION OF PHOSPHOLIPIDS BY DETERGENTS STRUCTURAL AND KINETIC ASPECTS" Biochimica et Biophysica Acta, 737 pp. 285-304 (1983).

EXAMINER:	CV
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	CV	Berger, M. "Oral Insulin 1922-1992: The History of Continuous Ambition and Failure" Heinrich-Heine-University, Dusseldorf, Germany
	CW	Cevc. G. et al., "The skin: a pathway for systemic treatment with patches and lipid-based agent carriers" Advanced Drug Delivery Reviews 18 pp. 349-378 (1996).
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	CY	P. Vinson, et al. "VESICLE-MICELLE TRANSITION OF PHOSPHATIDYLCHOLINE AND OCTYL GLUCOSIDE ELUCIDATED BY CRYO-TRANSMISSION ELE TRON MICROSCOPY", Biophys. J., Biophysical Society Volume 56 October 1989 669-681.
	CZ	K. Edwards, et al. "EFFECTS OF TRITON X-100 ON SONICATED LECITHIN VESICLES", Langmuir, Vol. 5, No. 2, 1989 pp. 473-478
	EA	A. Brendzel, et al., "EFFECTS OF LIPID-SOLUBLE SUBSTANCES ON THE THERMOTROPIC PROPERTIES OF LIPOSOME FILTRATION", Biochimica et Biophysica Acta, 601 (1980) 260-270.
	EB	G. Blu me, et al. "DRUG-CARRIER AND STABILITY PROPERTIES OF THE LONG-LIVED LIPID VESICLES, CRYPTOSOMES, IN VITRO AND IN VIVO", Journal of Liposome Research, 2(3), 355-368 (1992).

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